

MILAN KACAR

Software & Survey Engineer

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ABOUT ME

I am a Software Engineer & Survey Engineer with 2 years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I work as a project and teaching assistant. I am currently enrolled in two Master's degree programs : Geodesy & Computer Science at the same university. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished my high school having Mathematics, Logic and Physics at higher level.

PERSONAL INFORMATION

👤 Date of birth	01.09.1995
📍 Birthplace	Banja Luka, BA
🚩 Citizenship	Austrian
❤ Marital status	Single
♂ Sex	Male

EDUCATION

GYMNASIUM

📅 2010 - 2014 📍 Mrkonjic Grad, BA

BSc Geomatics Engineering

University of Technology, TU Graz

📅 2015 - 2019 📍 Graz, Austria

Master's Degree Programme - Geodesy

University of Technology, TU Graz

📅 2019-Present 📍 Graz, Austria

Master's Degree Programme - Computer Science

University of Technology, TU Graz

📅 2020-Present 📍 Graz, Austria

UNIVERSITY & PERSONAL PROJECTS

- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation for stocks considering different indexes (SP 500, Dow Jones, DAX etc.)
- RUSHB APP - Mobile application for calling a waiter and ordering food in bars and restaurants. <http://www.dolcevita.rushb.app/client.php>
- SCIENTIFIC PAPER MINER - This project is GOOGLE for scientific papers.
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery.
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals.
- GRAVITY ANOMALY MAPS - GRACE misson.
- KALMAN FILTER · ADEVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation.
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects.

LOOKING FOR

" To work in a progressive and dynamic organization where one could solve scientific enigmas and contribute towards welfare of society "

TECHNICAL STRENGTH

Python ●●●●●

C/C++ ●●●●●

GIS ●●●●●

PostgreSQL ●●●●●

Navigation ●●●●●

MATLAB ●●●●●

GNSS ●●●●●

Signal Processing ●●●●●

Java ●●●●●

Data Structures & Algorithms ●●●●●

MySQL ●●●●●

Docker ●●●●●

PHP ●●●●●

Linux ●●●●●

R ●●●●●

Apache Spark ●●●●●

Scala ●●●●●

Java Script ●●●●●

DISSERTATION WORK

BSc Thesis

Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

MSc Thesis

PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

WORK EXPERIENCE

Teaching Assistant

TU Graz

📅 March 2021 - Present 📍 Graz, Austria

- Integrated navigation
- Sensor fusion
- Indoor navigation

Software Engineer

TU Graz

📅 Sep 2019 - Present 📍 Graz, Austria

- Automation
- Statistics
- Geoinformatics
- Automotive industry

Survey Engineer

GEODATA

📅 July 2019 - December 2020 📍 Semmering Basistunnel, Austria

- Tunnel surveying
- 3D Laser scanner measurements

HOBBIES



Reading

I am trying to read a book per week.



Sports Addict

At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.



Travelling

After living in a rustic, small town for the past 18 years, I was craving change and adventure. Six years later, I've traveled to more places during college than the first two decades of my life.

STRENGTHS

Hard-working

Decision Making

Ability to Work Under Pressure

Motivator & Leader

Conflict Resolution

Time Management

Target oriented

Able to travel

Flexibility and Adaptability

Problem solver

LANGUAGES

Serbian | Croatian | Bosnian
German
English
Russian

